

SECRET

WFO-1199

Copy 2 of 4

11 June 1958

Dear Enza,

I am attaching a copy of Sid's letter dated 29 May 1958 requesting the establishment of a contract between us for continued work on the "C" Configuration.

It is our intent, upon receipt of a mutually acceptable cost proposal and statement of work, to enter into a contract with you. Please advise date when we may expect your quotation.

Dan

SA/PD/DCI: [] : bas

Distribution:

Orig. - [] - P&E

2. - [] - HF-32-27

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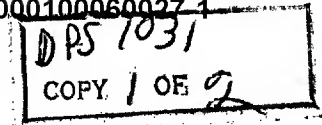
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SECRET



29 May 1958

SUBJECT: Continuation of "C" Camera Effort

TO: Contracting Officer

As a result of the "C" Camera Evaluation Program and our meeting at this Headquarters on 22 May, it is requested that a contract be established between the U. S. Government and Perkin-Elmer Corporation for the purpose of continuing the "C" Camera Program.

The scope of work envisioned is essentially that discussed on 22 May 1958, consisting of the attached list of modifications, cost of which is estimated at [REDACTED]. It is the recommendation of the AMC Project Officer that the Perkin-Elmer Corporation, under the supervision of [REDACTED] be given prime responsibility for both the modification program and flight test program and that the Hycon Corporation be designated as a sub-contractor to Perkin-Elmer Corporation. Attached as Inclosure #1 is a copy of Memo for Record summarizing the conference of 22 May 1958 which may be of benefit to you in preparing the contractual documents.



1 Incl
Memo for Record
dtd 22 May 58,
w/Appendix I

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[REDACTED]

HF-32-27

Encl #1
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23 May 1958

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MEMO FOR THE RECORD

SUBJECT: "C" Camera

The "C" camera configuration has been a joint effort with a 50-50 split of all costs for both R & D and production effort. On or about the 1st of April 1958, this office was advised that further expenditure of funds in support of the "C" camera was being terminated insofar as Project Headquarters was concerned. This decision was based on time phasing which appeared now to fall beyond a reasonable operation date for Project Headquarters. It was also based on the general tightening of R & D funds within Project Headquarters. The WSFO was given full responsibility for the decision as to whether or not the "C" configuration effort would be continued, and if it was to be continued, it would be funded solely with Air Force dollars. Subsequent to consultation with Colonel Arthur Smith, Hq USAF, Colonel Gabis, Directorate of Operations, Hq USAF, ATIC, and other groups of people believed to be qualified to express an opinion regarding this weapon, the following decisions were made:

1. Immediately stop all work by both contractors, Perkin-Elmer Corporation and Hycon Corporation.

2. Commence a 6-week detailed evaluation of the present "C" configurations with a view of a detailed analysis being made subsequent to 15 May 1958. This evaluation effort was funded to the extent of approximately \$45,000.00.

On the 22nd of May 1958, a conference was held at Hq AMC, consisting of the following personnel:

STATOTHR

PERKIN ELMER CORPORATIONHYCON CORPORATION

STATOTHR

STATOTHR

PROJECT HEADQUARTERSWSFO

STATOTHR

Memo For The Record, Subj: "C" Camera, 23 May 1958

As a result of this conference and a detailed discussion of "C" configurations and of the recommendations for modification resulting from the evaluation, the following decisions were made:

1. Certain modifications will be made as contained in Appendix I. It is anticipated that these modifications will be incorporated into the "C" configuration during the months of May, June and July and that the configuration will be available for flight test and further evaluation in late July.

2. That the work, both modifications and flight test, will be the prime responsibility of the Perkin-Elmer Corporation under the supervision of Dr. Rod Scott and that the Hyeon Corporation will be designated either as the sub-contractor to Perkin-Elmer, or an associate contractor to Perkin-Elmer. The WSPO recommends Hyeon as a sub-contractor to Perkin-Elmer. This decision will be determined during the week of 26 May 1958.

3. That the approximate dollar effort envisioned is
The type of contractual instrument recommended is a Fixed Price Redeterminable.

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It is the intent of the WSPO, in the event the above described modifications and program are successful, to incorporate these and possibly other changes into at least two (2) additional "C" configurations with the ultimate view of delivering three (3) combat ready systems to the SAC program. It is also envisioned that if "C" configuration reaches the degree of operational success presently envisioned, that Project Headquarters will again express a requirement for this weapon. In that event, a joint funding and monitoring program would be reinstated.

23 May 1958

APPENDIX I

MODIFICATIONS

1. Collimator Rework: Recheck and realign one at "H" and one at test site to equal that of present set at "P".
2. Remount Primary Mirror: Change from center mount to three point suspension to reduce sensitivity to vibration. This mod. shall include an optical check to determine whether new mount tends to distort mirror.
3. Remount "G" Mirror: G mirror should be integral with Field Lens Group just as elbow mirror. This mod. will include such strengthening and stiffening as possible without resorting to a new casting to include "G" as an integral part of the Field Lens Group.
4. Remove internal isolators from various parts.
5. Remove rubber motor mounts.
6. Perform ground test of new foam plastic material for Temp effects and moisture absorption. This may be useful for stiffening and insulating the lens barrel and G-H light tunnel.
7. Mechanical dampers on "H" and "I" mirrors.
8. Couple and Remount Gyro-Shutter-Programmer to Super Structure: CG mounting and pads should be considered in design to allow later addition of isolators if necessary.
9. Install three-axis position servo to eliminate mechanical caging during operation.
10. Modify caging system so that cager motor will be off during operation.
11. Stiffen torquer solenoid brackets.
12. Lab temp test of lens barrel heater.
13. Complete third set of lens elements.
14. "C" isolation from A/C:
Hyeon will try "B" type isolators.
"H" will perform study to define spec for ultimate isolators.